

ABSTRACT OF THE DISCLOSURE

1
2
3 A flexible clip applier includes a flat wire wound outer
4 tubular coil, a pair of jaws at the end of the coil, end effector
5 wires extending through the coil and coupled to the jaws, and a
6 clip-advancing wire extending through the coil. A large pushing
7 force to advance a clip is created by providing a compressive
8 force to the outer tubular coil to increase its tensile
9 limitation, and providing a force which is compressive to the
10 clip-advancing wire and tensile to the tubular coil while
11 maintaining the compressive force on the tubular coil.